

Amendments to the Claims:

Please amend claims 1-6, 8-13, and 15-20 as shown in the LISTING OF CLAIMS below. Claims 7, 14, and 21 remain unchanged. The LISTING OF CLAIMS will replace all prior versions, and listings, of claims in the present application.

Listing of Claims:

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1. (currently amended) A method for representing an application programming interface (API) definition for an object-oriented library, said method comprising:
creating a list of public elements in said object-oriented library, each of said public elements including a sublist of all public hierarchically-related elements ~~for that~~
are a parent of the element; and
storing said list.
 2. (currently amended) The method of claim 1 wherein
said object-oriented library is a Java™ package;
said public elements comprise classes and interfaces; and
said public hierarchically-related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
 3. (currently amended) A method for representing an application programming interface (API) definition for an object-oriented library, said method comprising:
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creating a public list including all public classes and interfaces ~~in~~ defined in said object-oriented library, said public list including a class sublist for each of said public classes, each said class sublist including all direct and indirect superclasses of a class; and storing said list.

B 4. (currently amended) The method of claim 3 wherein said object-oriented library is a Java™ package.

5. (currently amended) A method for determining a program hierarchy, said method comprising:
receiving an application programming interface (API) definition file for an object-oriented library, said API definition file including a list of public elements in said object-oriented library, each of said public elements including a sublist of all public hierarchically-related elements ~~for~~ that are a parent of the element; and indicating a first public element is a direct parent of a second public element when said first public element is represented in the sublist for said second public element and said first public element is not represented in the sublist for any other public element listed in the sublist for said second public element.

6. (currently amended) The method of claim 5 wherein said object-oriented library is a Java™ package;
said public elements comprise classes and interfaces; and

said public hierarchically-related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.

7. (original) The method of claim 5, further comprising
comparing a first program hierarchy reconstructed from a first API definition file
with a second program hierarchy reconstructed from a second API definition
file; and
indicating an error when said first program hierarchy is inconsistent with said second
program hierarchy.
8. (currently amended) A program storage device readable by a machine, embodying a
program of instructions executable by the machine to perform a method to represent
an application programming interface (API) definition for an object-oriented library,
the method comprising:
creating a list of public elements in said object-oriented library, each of said public
elements including a sublist of all public hierarchically-related elements ~~for that~~
are a parent of the element; and
storing said list.
9. (currently amended) The program storage device of claim 8 wherein
said object-oriented library is a Java™ package;
said public elements comprise classes and interfaces; and

said public hierarchically-related elements comprise public superclasses and public superinterfaces of ~~said~~ classes and said interfaces.

B' 10. (currently amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method to represent an application programming interface (API) definition for an object-oriented library, the method comprising:

creating a public list including all public classes and interfaces ~~in~~ defined in said object-oriented library, said public list including a class sublist for each of said public classes, each said class sublist including all direct and indirect superclasses of a class; and
storing said list.

11. (currently amended) The program storage device of claim 10 wherein said object-oriented library is a Java™ package.

12. (currently amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method to determine a program hierarchy, the method comprising:

receiving an application programming interface (API) definition file for an object-oriented library, said API definition file including a list of public elements in said object-oriented library, each of said public elements including a sublist of all public hierarchically-related elements ~~for~~ that are a parent of the element; and

indicating a first public element is a direct parent of a second public element when said first public element is represented in the sublist for said second public element and said first public element is not represented in the sublist for any other public element listed in the sublist for said second public element.

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13. (currently amended) The program storage device of claim 12 wherein said object-oriented library is a Java™ package;
said public elements comprise classes and interfaces; and
said public hierarchically-related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
14. (previously presented) The program storage device of claim 12 wherein said method further comprises:
comparing a first program hierarchy reconstructed from a first API definition file with a second program hierarchy reconstructed from a second API definition file; and
indicating an error when said first program hierarchy is inconsistent with said second program hierarchy.
15. (currently amended) An apparatus for representing an application programming interface (API) definition for an object-oriented library, said apparatus comprising:

means for creating a list of public elements in said object-oriented library, each of
said public elements including a sublist of all public hierarchically-related
elements ~~for~~ that are a parent of the element; and
means for storing said list.

16. (currently amended) The apparatus of claim 15 wherein
said object-oriented library is a Java™ package;
said public elements comprise classes and interfaces; and
said public hierarchically-related elements comprise public superclasses and public
superinterfaces of said classes and said interfaces.

17. (currently amended) An apparatus for representing an application programming
interface (API) definition for an object-oriented library, said apparatus comprising:
means for creating a public list including all public classes and interfaces ~~in~~ defined
in said object-oriented library, said public list including a class sublist for each
of said public classes, each said class sublist including all direct and indirect
superclasses of a class; and
means for storing said list.

18. (currently amended) The apparatus of claim 17 wherein said object-oriented library
is a Java™ package.

19. (currently amended) An apparatus for determining a program hierarchy, said apparatus comprising:
- means for receiving an application programming interface (API) definition file for an object-oriented library, said API definition file including a list of public elements in said object-oriented library, each of said public elements including a sublist of all public hierarchically-related elements ~~for~~ that are a parent of the element; and
- means for indicating a first public element is a direct parent of a second public element when said first public element is represented in the sublist for said second public element and said first public element is not represented in the sublist for any other public element listed in the sublist for said second public element.
20. (currently amended) The apparatus of claim 19 wherein
- said object-oriented library is a Java™ package;
- said public elements comprise classes and interfaces; and
- said public hierarchically-related elements comprise public superclasses and public superinterfaces of said classes and said interfaces.
21. (previously presented) The apparatus of claim 19, further comprising
- means for comparing a first program hierarchy reconstructed from a first API definition file with a second program hierarchy reconstructed from a second API definition file; and

means for indicating an error when said first program hierarchy is inconsistent with
said ~~second~~ program hierarchy.
